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## **Abstract of the Disclosure**

In one embodiment, a method for speculatively reusing regions of code includes identifying a reuse region and a data input to the reuse region, determining whether a data output of the reuse region is contained within reuse region instance information pertaining to a plurality of instances of the reuse region, and when the data output is not contained within the reuse region instance information, predicting the data output of the reuse region based on the reuse region instance information.